Mumbai University

Question Paper

[IDOL – REVISED COURSE]
(MAY – 2018)

PAPER - III

DATA

WAREHOUSING

Time: 3 Hours   **Total Marks:** 100

N.B.: **(1)** *All Question are Compulsory.*
   (2) *Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.*
   (3) *Answer To The Same Question Must Be Written Together.*
   (4) *Number To The Right Indicates Marks.*
   (5) *Draw Neat Labeled Diagrams Wherever Necessary.*
   (6) *Use of Non – Programmable Calculator is allowed.*

Q.1   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A)   Write a short note on database management system.   **(5)**
(B)   How transaction processing can be parallelized?   **(5)**
(C)   Write a short note on ETL mapping.   **(5)**
(D)   Write a short note on building the metadata infrastructure.   **(5)**

Q.2   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Write a short note on star schema.   **(5)**
(B)   Write a short note on interactive sector.   **(5)**
(C)   Explain data warehouse with respect to referential integrity.   **(5)**
(D)   Write a short note on meta data.   **(5)**
(E)   Differentiate between structured and unstructured data.   **(5)**
(F)   Write a short note on lifecycle of Data Warehouse.   **(5)**

Q.3   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Differentiate between active and passive repositories.   **(5)**
(B)   Briefly explain internal and external taxonomy.   **(5)**
(C)   Explain spiral model methodology in brief.   **(5)**
(D)   What is statistical processing with respect to data warehousing?   **(5)**
(E)   Define data marts and exploration facility.   **(5)**
(F)   What is project based data?   **(5)**

Q.4   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Explain in brief ETL data quality monitor.   **(5)**
(B)   What is a granular data?   **(5)**
(C)   Explain the importance of encryption process.   **(5)**
(D)   How data access can be protected in DW?   **(5)**
(E)   Explain in brief how to monitor DW environment.   **(5)**
(F)   Write a short note on attack sensing.   **(5)**

Q.5   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Briefly explain discrete data.   **(5)**
(B)   Explain audit trail with respect to ETL.   **(5)**
(C)   Write a short note on time variant data.   **(5)**
(D)   Define role of ETL in brief.   **(5)**
(E)   Explain exception flow of data.   **(5)**
(F)   Explain ETL in batch mode.   **(5)**

Q.6 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) Write a short note on homegrown versus third party granularity manager. **(5)**

(B) Define analytical response time. **(5)**

(C) How transactions can be separated into classes? **(5)**

(D) Write a short note on creating enterprise metadata. **(5)**

(E) What are service level agreements? Explain in brief. **(5)**

(F) Write a short note on data partitioning. **(5)**

Q.7 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) Explain in brief physical design process. **(5)**

(B) Explain process of DW implementation. **(5)**

(C) Explain data warehouse deployment. **(5)**

(D) Define DW maintenance. **(5)**

(E) Write a short note on data warehouse. **(5)**

(F) Write a short note on growth of DW. **(5)**